

ABSTRACT OF THE DISCLOSURE

A pressure relief device is provided. The pressure relief device includes a sealing member and a low-pressure support member that is adapted to provide support to the sealing member when the sealing member is subject to a certain pressure differential. The low pressure support member includes an annular flange and at least one supporting projection. A cutting element is adapted to puncture the sealing member when the sealing member is subject to a predetermined pressure differential. The pressure relief device may further include a high pressure support member and safety heads forming a pre-torqued assembly. The supporting projection may optionally include an area of weakness either wholly within or on the periphery thereof.